WHAT IS CLAIMED IS:

1. An air conditioner for a vehicle comprising:

a seat air conditioner means for producing air blowing from a seat of the vehicle;

a storage means for storing a control characteristic of the seat air conditioner means;

a control means for automatically controlling the seat air conditioner means based on the control characteristic stored in the storage means; and

a manual setting means for setting a control condition of the seat air conditioner means,

wherein when the manual setting means is operated during an automatic control of the seat air conditioner means, a setting condition of the manual setting means is learned and the control characteristic is changed based on the learning.

2. The air conditioner according to claim 1, further comprising:

a compartment air conditioner means for air-conditioning a passenger compartment of the vehicle;

a target temperature calculating means for calculating a target temperature of air to be blown into the passenger compartment with respect to a setting temperature of the passenger compartment, wherein the control means automatically controls the compartment air conditioner means based on the target temperature; and,

a target temperature correcting means for correcting the target temperature in accordance with a change of the control condition of the seat air conditioner means when the control condition of

the seat air conditioner means is changed by operation of the manual setting means.

3. The air conditioner according to claim 1, wherein the manual setting means is provided such that at least one of a temperature and a volume of air to be blown from the seat is changed.

4. The air conditioner according to claim 1, further comprising:

a first seat and a second seat respectively air-conditioned by the seat air conditioner means,

wherein when an air-conditioning control of the first seat is changed by operating the manual setting means, the learning is applied to an air-conditioning control of the second seat.

5. The air conditioner according to claim 2,

wherein the compartment air conditioner means includes a front air conditioner unit having a main blower, a temperature control device, and an air outlet through which air is blown into the passenger compartment.

6. The air conditioner according to claim 5, further comprising:

a seat air volume calculating means for calculating a volume of air to be blown from the seat with respect to the target temperature based on the control characteristic stored in the storage means;

a main blower level determining means for determining a volume of air to be blown by the main blower based on the target temperature;

an air outlet mode determining means for determining a mode

of the air outlet of the front air conditioning unit based on the target temperature; and

a device controlling means for controlling the temperature control device based on the target temperature.

7. The air conditioner according to claim 2,

wherein the seat air conditioner means includes a seat blower,

wherein the target temperature correcting means includes a function of increasing the target temperature in accordance with an increase in an air volume of the seat blower by operation of the manual setting means during a cooling operation.

8. The air conditioner according to claim 2,

wherein the seat air conditioner means includes a seat blower,

wherein the target temperature correcting means includes a function of reducing the target temperature in accordance with an increase in an air volume of the seat blower by operation of the manual setting means during a heating operation.

9. The air conditioner according to claim 2,

wherein the seat air conditioner means includes a seat blower,

wherein the control characteristic of the seat air conditioner means is provided by a relationship between the target temperature and the air volume of the seat blower,

wherein the target temperature correcting means includes a function of correcting constants of the control characteristic for learning a correlation between the target temperature when the

setting means is operated and the changed air volume of the seat blower.

10. A method of controlling a vehicle air conditioner having a front air conditioner unit for air-conditioning a passenger compartment of a vehicle and a seat air conditioner unit for air-conditioning a seat of the vehicle by a seat blower, the method comprising:

calculating a target temperature of air to be blown into the passenger compartment with respect to a setting temperature of the passenger compartment while the front air conditioner unit is automatically controlled by a control means;

determining whether a switch of the seat blower for changing an air blow level is operated;

correcting the target temperature in accordance with a change of the switch when it is determined that the switch is operated;

calculating a volume of air to be blown by the seat blower based on a seat blower characteristic stored in a storage means with respect to the target temperature; and

determining a volume of air to be blown by a main blower of the front air conditioner unit based on the target temperature.

11. The method according to claim 10, further comprising:

determining air outlet modes of the front air conditioner unit; and

controlling a temperature controlling device of the front air conditioner unit based on the target temperature.

12. The method according to claim 10, wherein when the air volume of the seat blower is increased by operation of the switch during a cooing operation, the correcting step increases the target temperature in accordance with an increase in the air volume.

13. The method according to claim 10, wherein when the air volume of the seat blower is increased by operation of the switch during a heating operation, the correcting step reduces the target temperature in accordance with an increase in the air volume.

14. The method according to claim 10, wherein the correcting step corrects constants of the blower characteristic for learning a correlation between the target temperature at a time that the switch of the seat blower is operated and the changed air volume of the seat blower.